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Product datasheet for MG220315

Hnrnpc (NM_016884) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpc (NM_016884) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hnrnpc
Synonyms:	AL022939; D14Wsu171e; hnrnp-C; hnRNPC1; hnRNPC2; Hnrpc; Hnrpc1; Hnrpc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG220315 representing NM_016884
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTAGCAATGTTACCAACAAGACAGATCCTCGGTCCATGAATTCCCGTGTATTCATTGGGAATCTCA
ACACTCTGGTGGTCAAGAAGTCTGATGTGGAGGCCATCTTTTCAAAGTATGGCAAAATTGTGGGCTGCTC
TGTGCATAAAGGCTTTGCCTTTGTCCAGTATGTTAATGAAAGAAATGCCCGAGCTGCTGTAGCTGGCGAG
GATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAA
AAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGGTCAGTACCAGAACACCCTTCTCCGTCCCCTCT
ACTCAGTTCCTCATTTGACTTGGACTATGACTTTCAACGGGATTATTATGACAGGATGTACAGTTACCCA
GCGCGGGTTCCTCCTCCTCCTCCTATTGCTCGAGCTGTGGTGCCTTCCAAACGTCAGCGTGTTTCAGGGA
ACACCTCACGAAGGGGCAAAAGTGGATTCAATTCGAAGAGTGGACAAAGGGGATCTTCTTCCAAGTCTGG
AAAATTGAAAGGTGATGACCTTCAGGCCATTAAAAAGGAGCTGACTCAGATAAAACAAAAAGTGGATTCT
CTTCTGGAAAGCCTGGAAAAAATTGAAAAAGAACAAAGCAAGCAAGCAGACTTGTCCTTCTCATCCCCAG
TAGAGATGAAGAATGAAAAGTCTGAAGAAGAGCAGAGCAGCGCCTCTGTGAAGAAAGATGAGACTAATGT
GAAGATGGAGTCTGAGGCAGGTGCAGATGACTCTGCTGAGGAGGGTGACCTGCTGGATGATGACGATAAT
GAAGATCGGGGGGATGACCAGCTGGAGTTGAAGGATGATGAAAAAGAGCCTGAGGAAGGAGAAGACGACA
GAGACAGCGCCAATGGGGAGGATGACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

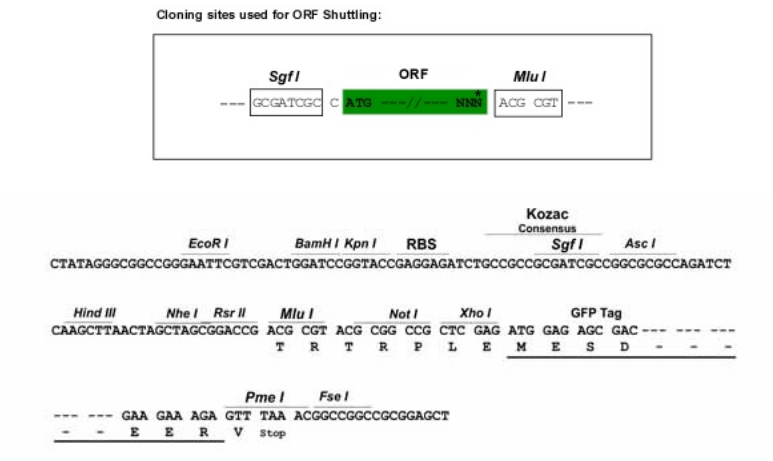
>MG220315 representing NM_016884
Red=Cloning site Green=Tags(s)

MASNVTNKTDPRSMNSRVFIGNLNTLVVKKSDVEAIFSKYGKIVGCSVHKGFAFVQYVNERNARAAVAGE
DGRMIAGQVLDINLAAEPKVNRGKAGVKRSAAEMYGSVPEHPSPSPLLSSSFDLDYDFQRDYYDRMYSYP
ARVPPPPPIARAVVPSKRQRVSGNTSRRGKSGFNSKSGQRGSSSKSGKLKGDDLQAIKKELTQIKQKVDS
LLESLEKIEKEQSKQADLSFSSPVEMKNEKSEEEQSSASVKKDETNVKMESEAGADDSAEEGDLLDDDDN
EDRGDDQLELKDDEKEPEEGEDDRDSANGEDDS

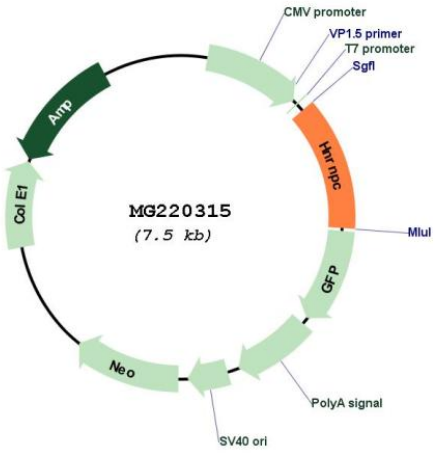
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016884

ORF Size: 939 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_016884.4
RefSeq Size:	2844 bp
RefSeq ORF:	942 bp
Locus ID:	15381
UniProt ID:	Q9Z204
Cytogenetics:	14 26.79 cM
Gene Summary:	Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles. Interacts with poly-U tracts in the 3' UTR or 5'-UTR of mRNA and modulates the stability and the level of translation of bound mRNA molecules. Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides. May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. N6-methyladenosine (m6A) has been shown to alter the local structure in mRNAs and long non-coding RNAs (lncRNAs) via a mechanism named 'm(6)A-switch', facilitating binding of HNRNPC, leading to regulation of mRNA splicing. [UniProtKB/Swiss-Prot Function]